

Abstract

A method for producing a cathode material for a secondary battery, characterized in that it comprises admixing a compound liberating a phosphate ion in a solution (phosphoric acid H_3PO_4 , phosphorus pentoxide P_2O_5 , ammonium dihydrogenphosphate $\text{NH}_4\text{H}_2\text{PO}_4$ and the like), water and metallic iron, adding lithium carbonate, lithium hydroxide or a hydrate thereof to the resultant mixture, and firing the resultant reaction product, to thereby synthesize LiFePO_4 .